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L16	7	3 and (ACL\$1 or (access adj control adj list)) and ((access adj right) or (privileg\$5 near access\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/29 07:22



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1 [Toward a model of self-administering data](#)

Byunghoon Kang, Robert Wilensky0

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(308.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a model of self-administering data. In this model, a declarative description of how a data object should behave is attached to the object, either by a user or by a data input device. A widespread infrastructure of self-administering data handlers is presumed to exist; these handlers are responsible for carrying out the specifications attached to the data. Typically, the specifications express how and to whom the data should be transferred, how it should be incorporated when it i ...

Keywords: asynchronous collaboration, data access model, data management, distributed file system, file sharing, peer to peer, scalable update propagation, self-administering data

2 [Extending document management systems with user-specific active properties](#)

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Full text available: pdf(166.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing terms](#), [index terms](#)

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

3 [Personal distributed computing: the Alto and Ethernet software](#)

Butler Lampson

January 1986 **Proceedings of the ACM Conference on The history of personal**

workstations

Full text available:  pdf(3.00 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

4 Presto: an experimental architecture for fluid interactive document spaces

Paul Dourish, W. Keith Edwards, Anthony LaMarca, Michael Salisbury

June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2

Full text available:  pdf(409.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional document systems use hierarchical filing structures as the basis for organizing, storing and retrieving documents. However, this structure is very limited in comparison with the rich and varied forms of document interaction and category management in everyday document use. Presto is a prototype document management system providing rich interaction with documents through meaningful, user-level document attributes, such as "Word file," "published paper," &l ...

Keywords: attribute/value systems, direct manipulation, document management

5 Using properties for uniform interaction in the Presto document system

Paul Dourish, W. Keith Edwards, Anthony LaMarca, Michael Salisbury

November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology**

Full text available:  pdf(477.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most document or information management systems rely on hierarchies to organise documents (e.g. files, email messages or web bookmarks). However, the rigid structures of hierarchical schemes do not mesh well with the more fluid nature of everyday document practices. This paper describes Presto, a prototype system that allows users to organise their documents entirely in terms of the properties those documents hold for users. Properties provide a uniform mechanism for managing, coding, search ...

Keywords: document interfaces, document management, document properties, interaction models

6 The Satchel system architecture: mobile access to documents and services

Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming

December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Full text available:  pdf(207.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile professionals require access to documents and document-related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face-to-face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

7 Starting a university microcomputer maintenance program

Roger N. Addelson, Don M. Wee

September 1986 **Proceedings of the 14th annual ACM SIGUCCS conference on User services: setting the direction**

Full text available:  [pdf\(2.73 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

8 Developing multiagent systems: The Gaia methodology

Franco Zambonelli, Nicholas R. Jennings, Michael Wooldridge

July 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 12 Issue 3

Full text available:  [pdf\(346.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Systems composed of interacting autonomous agents offer a promising software engineering approach for developing applications in complex domains. However, this *multiagent system* paradigm introduces a number of new abstractions and design/development issues when compared with more traditional approaches to software development. Accordingly, new analysis and design methodologies, as well as new tools, are needed to effectively engineer such systems. Against this background, the contribution ...

Keywords: Multiagent systems, agent-oriented software engineering, analysis and design methodologies, distributed systems, software architectures

9 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

10 Frameworks for component-based client/server computing

Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1

Full text available:  [pdf\(243.81 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Improving the usability of the hierarchical file system

Gary Marsden, David E. Cairns

September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology**

Full text available:  [pdf\(391.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Whether you are interested in improving the usability of Linux, Macintosh or Windows, there is one restriction you cannot escape -- the hierarchical file storage system. The notion of files and folders has been with us for so long that it almost seems axiomatic. In this paper we look at the effects on users of forcing a hierarchical classification of files. We also

consider how some of the resultant problems can be tackled with a new piece of file browsing software based on the ideas of relation ...

Keywords: databases, design, file storage, human factors, human-computer interaction, information retrieval, searching

12 Personal computer networks and graphical animation: Rationale and practice for education

Marc Brown, Norman Meyrowitz

February 1983 **ACM SIGCSE Bulletin , Proceedings of the fourteenth SIGCSE technical symposium on Computer science education**, Volume 15 Issue 1

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper examines how progress in computer hardware and software may be applied to solve several serious problems in teaching computer science courses. It is concerned primarily with two such problems: 1) the lack of immediate reinforcement of computing concepts because of long delays between learning and practice, and 2) the difficulty instructors have motivating and explaining complex topics with currently available instruction tools and techniques. The paper first reviews the involve ...

13 What is a file synchronizer?

S. Balasubramaniam, Benjamin C. Pierce

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  pdf(1.21 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 The squeaky clean computer lab: how to maintain your MACs and PCs as well as your sanity!

David Houston

October 1998 **Proceedings of the 26th annual ACM SIGUCCS conference on User services**

Full text available:  pdf(766.24 KB) Additional Information: [full citation](#), [index terms](#)

15 Simplified applications for network computers

Don Gentner, Frank Ludolph, Chris Ryan

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  pdf(1.49 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: HotJava Views, Java, NC, Network Computer, Web, calendar, email, human interface design, minimalist, simplicity

16 Access control for large collections

H. M. Gladney

April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2

Full text available:  pdf(482.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

Keywords: access control, digital library, document, electronic library, information security

17 The Kala basket: a semantic primitive unifying object transactions, access control, versions, and configurations

Sergui S. Simmel, Ivan Godard

November 1991 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages, and applications**, Volume 26 Issue 11

Full text available:  pdf(2.11 MB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

18 Applications: YouServ: a web-hosting and content sharing tool for the masses

Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available:  pdf(238.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)


YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intrane ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

19 Hints for computer system design

Butler W. Lampson

October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles**, Volume 17 Issue 5

Full text available:  pdf(1.73 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

Experience with the design and implementation of a number of computer systems, and study of many other systems, has led to some general hints for system design which are described here. They are illustrated by a number of examples, ranging from hardware such as the Alto and the Dorado to applications programs such as Bravo and Star.

20 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available:  pdf(7.97 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This

survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

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